

Data Fundamentals Lab 5:

Calculating Averages and Percentages Changes

In this lab, you will download an Excel file from an open data portal, and then analyse its data. You will use formula in Excel to calculate averages and percentage changes to explore change over time. After completing this lab, you will be able to use Excel to:

- Filter and sort data
- Calculate numerical average or mean
- Calculate percentage change

Overview

In this lab, you will conduct a regional comparison to investigate trends in under-five mortality using World Bank data. You will first find and download the appropriate data to analyse, and then look for pattern on change in under-five mortality rate over time for Sub-Saharan Africa. You will also look at individual countries and find out by how much they have reduced this rate over the decade.

Hypothesis

The region did not meet its goals to reduce child mortality.

Questions

1. Which country had the highest 'Under five mortality rate' in 2015?
2. What was the regional average in 2015?
3. Which countries were above average and which were below?
4. How many were above and how many were below the MDG target?
5. Which country made the most progress over 15 years?
6. Which country made the least?

Task 1: Getting Data

1. Open <http://databank.worldbank.org/> in your internet browser.

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WHAT'S NEW
Global Economic Prospects was updated on June 7, 2018
Education Statistics - All Indicators was updated on June 7, 2018
Joint External Debt Hub was updated on May 31, 2018
World Development Indicators was updated on May 21, 2018

Explore. Create. Share: Development Data
DataBank is an analysis and visualisation tool that contains collections of time series data on a variety of topics. You can create your own queries; generate tables, charts, and maps; and easily save, embed, and share them. [Watch the tutorial](#) and [read the FAQs](#). Enjoy using DataBank and [let us know what you think!](#)
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Explore databases
Type keywords to filter database names
Filter by:

Sort by: **Most Used** | Alphabetical | Last Updated | [View all databases](#)

Database preview: ?

World Development Indicators Public
World Development Indicators (WDI) is the primary World Bank collection of development indicators, compiled from officially recognized international sources. It presents the most current and accurate global [See more +](#)
[External Debt and Financial Flows statistics, Health statistics, Gender, Economy, Social Data](#)
Last Updated: 05/21/2018

Statistical Capacity Indicators Public
Statistical Capacity Indicators provides information on various aspects of national statistical systems of developing countries, including an overall country-level statistical capacity indicator.
Last Updated: 11/06/2017

WHAT'S POPULAR
INDICATORS COUNTRIES
GDP growth (annual %)
GDP (current US\$)
GDP per capita (current US\$)
GNI per capita, Atlas method (current US\$)
Exports of goods and services (% of GDP)
Foreign direct investment, net inflows (BoP, current US\$)
Inflation, consumer prices (annual %)
Population, total
Life expectancy at birth, total (years)
Poverty headcount ratio at national poverty line (% of population)
[+ View more indicators](#)

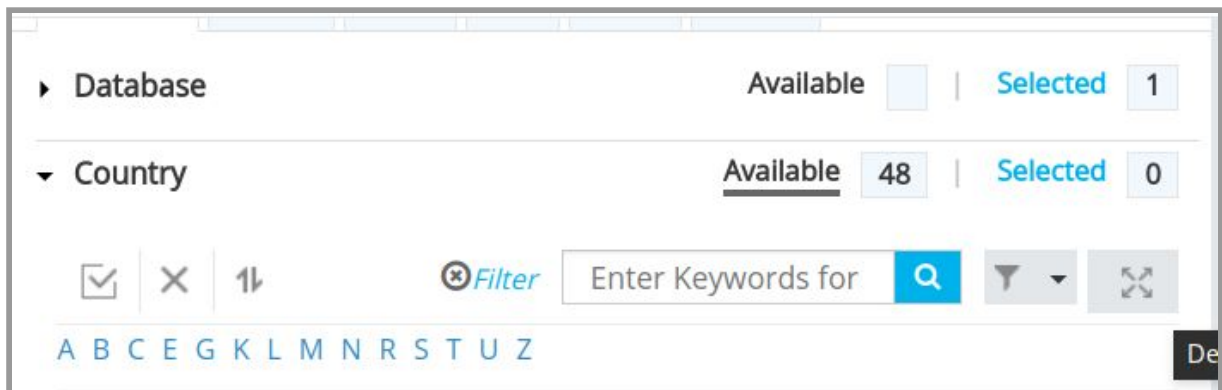
- In search box under “Explore databases”, type **Health, Nutrition and Population** and press Enter or select from the menu below.

Explore databases

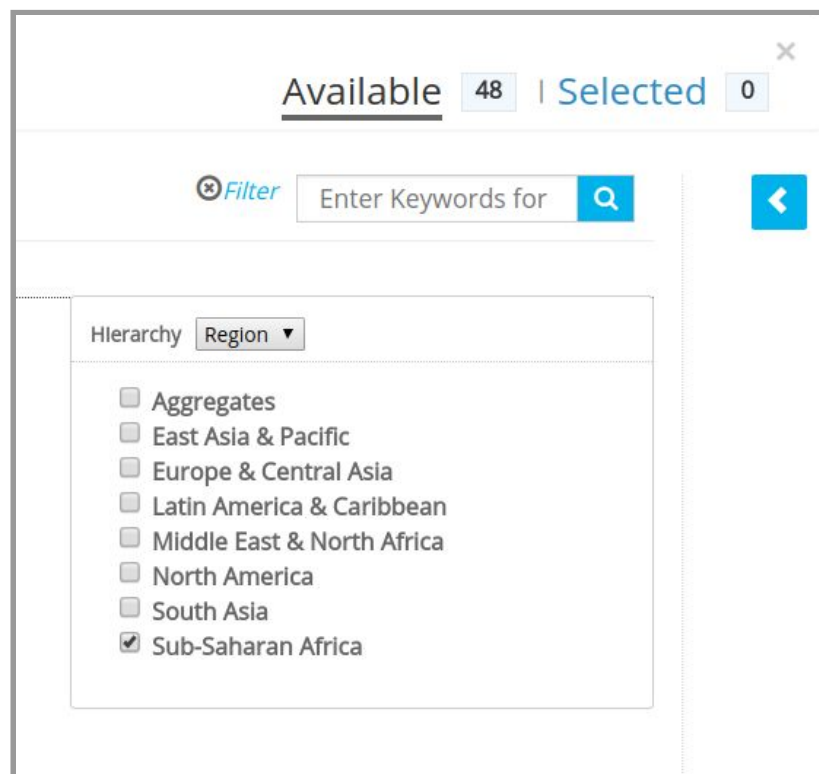
Filter by:

- In the search results that appear, click **Health Nutrition and Population Statistics**.

4. In the screen that opens, click on the arrow by **Country** and click on the **Detail view** icon on the right.



5. This opens up a new window. From the Hierarchy drop-down list on the right, select **Region**. Check **Sub-Saharan African** from the list.



6. Click on **Select all** in the top right corner of the menu options to select all the countries under Sub-Saharan Africa..

☒ Select all
 ☒ Unselect all
 ☒ Invert selection

A B C E G K L M N R S T U Z

<input checked="" type="checkbox"/> Angola	<input checked="" type="checkbox"/> Benin	<input checked="" type="checkbox"/> Botswana
<input checked="" type="checkbox"/> Burkina Faso	<input checked="" type="checkbox"/> Burundi	<input checked="" type="checkbox"/> Cabo Verde
<input checked="" type="checkbox"/> Cameroon	<input checked="" type="checkbox"/> Central African Republic	<input checked="" type="checkbox"/> Chad
<input checked="" type="checkbox"/> Comoros	<input checked="" type="checkbox"/> Congo, Dem. Rep.	<input checked="" type="checkbox"/> Congo, Rep.
<input checked="" type="checkbox"/> Cote d'Ivoire	<input checked="" type="checkbox"/> Equatorial Guinea	<input checked="" type="checkbox"/> Eritrea
<input checked="" type="checkbox"/> Ethiopia	<input checked="" type="checkbox"/> Gabon	<input checked="" type="checkbox"/> Gambia, The
<input checked="" type="checkbox"/> Ghana	<input checked="" type="checkbox"/> Guinea	<input checked="" type="checkbox"/> Guinea-Bissau
<input checked="" type="checkbox"/> Kenya	<input checked="" type="checkbox"/> Lesotho	<input checked="" type="checkbox"/> Liberia
<input checked="" type="checkbox"/> Madagascar	<input checked="" type="checkbox"/> Malawi	<input checked="" type="checkbox"/> Mali
<input checked="" type="checkbox"/> Mauritania	<input checked="" type="checkbox"/> Mauritius	<input checked="" type="checkbox"/> Mozambique
<input checked="" type="checkbox"/> Namibia	<input checked="" type="checkbox"/> Niger	<input checked="" type="checkbox"/> Nigeria
<input checked="" type="checkbox"/> Rwanda	<input checked="" type="checkbox"/> Sao Tome and Principe	<input checked="" type="checkbox"/> Senegal
<input checked="" type="checkbox"/> Seychelles	<input checked="" type="checkbox"/> Sierra Leone	<input checked="" type="checkbox"/> Somalia
<input checked="" type="checkbox"/> South Africa	<input checked="" type="checkbox"/> South Sudan	<input checked="" type="checkbox"/> Sudan
<input checked="" type="checkbox"/> Swaziland	<input checked="" type="checkbox"/> Tanzania	<input checked="" type="checkbox"/> Togo
<input checked="" type="checkbox"/> Uganda	<input checked="" type="checkbox"/> Zambia	<input checked="" type="checkbox"/> Zimbabwe

7. Click the **X** at the top-left corner of the window to return to the previous page. Now click **Series**.

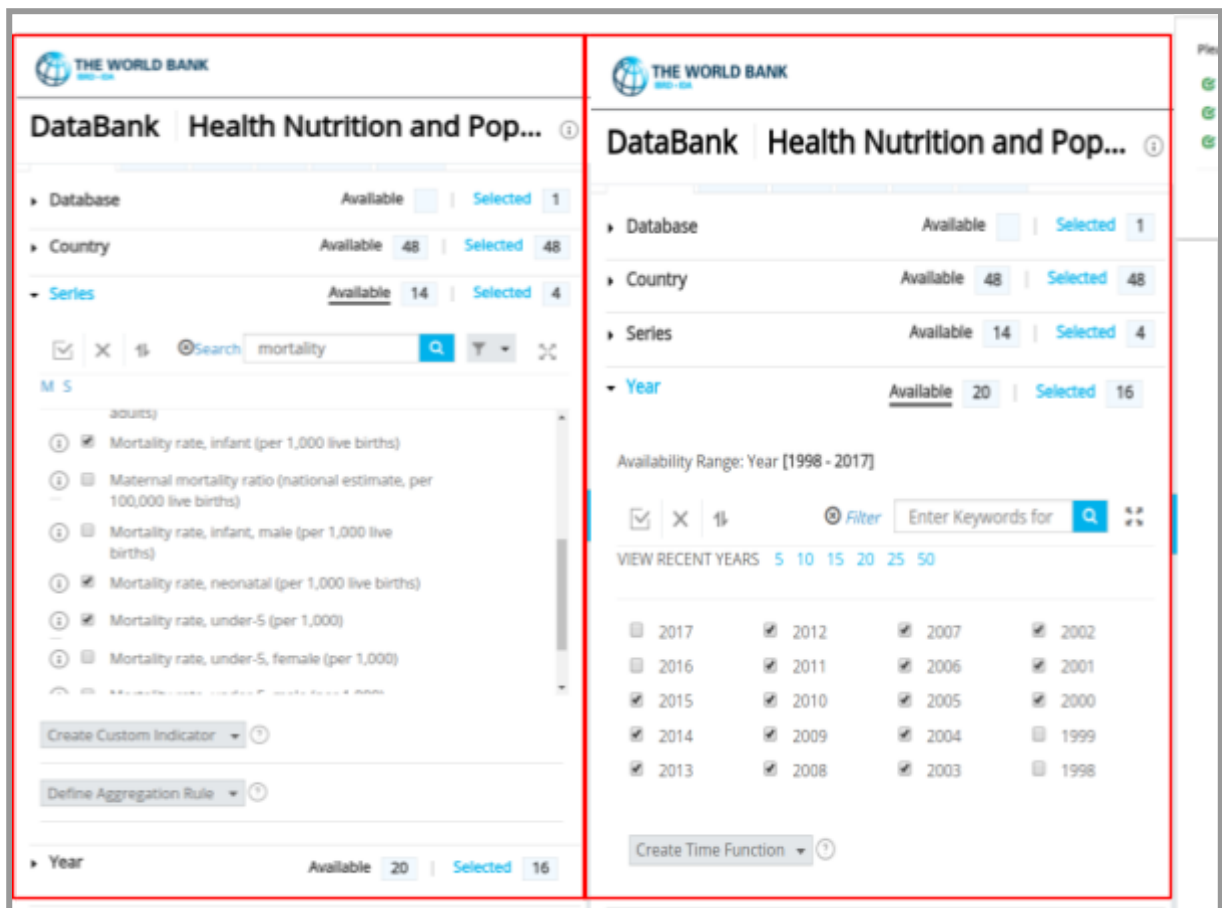
8. Under Series, type **mortality** into the search bar, and press **Enter**

9. Now select the following indicators:

- Maternal mortality ratio (modeled estimate, per 100,000 live births)
- Mortality rate, infant (per 1,000 live births)
- Mortality rate, neonatal (per 1,000 live births)
- Mortality rate, under-5 (per 1,000)

10. Click **Year**.

11. Under 'Year', select all years from 2000 to 2015. Then, click APPLY CHANGES. A table appears on the right:



12. Click **Download Options**. Next, select **Excel**. An Excel file called **Data_Extract_From_Health_Nutrition_and_Population_Statistics.xlsx** downloads to your computer.

on Statistics ⓘ

Table Chart Map Metadata Download options ▼

⚙️ Preview

Clear Selection | Add Country (48) Add Series (4) Add Year (16)

Maternal mortality ratio (modeled estimate, per 100,000 live births) ⓘ

	2007	2008	2009	2010	2011	2012	2013		
Angola	640.0	606.0	581.0	561.0	546.0	526.0	509.0		
Benin	481.0	469.0	457.0	446.0	436.0	429.0	422.0		
Botswana	215.0	208.0	188.0	169.0	159.0	153.0	139.0	134.0	129.0
Burkina Faso	447.0	436.0	428.0	417.0	408.0	398.0	389.0	379.0	371.0
Burundi	849.0	838.0	824.0	808.0	796.0	780.0	760.0	737.0	712.0
Cabo Verde	60.0	57.0	54.0	51.0	50.0	48.0	46.0	44.0	42.0
Cameroon	710.0	707.0	696.0	676.0	652.0	632.0	619.0	609.0	596.0
Central African Republic	992.0	963.0	941.0	909.0	888.0	876.0	873.0	872.0	882.0
Chad	1,100.0	1,070.0	1,070.0	1,040.0	984.0	931.0	901.0	881.0	856.0
Comoros	415.0	407.0	396.0	388.0	376.0	365.0	354.0	344.0	335.0
Congo, Dem. Rep.	803.0	792.0	793.0	794.0	777.0	771.0	746.0	717.0	693.0
Congo, Rep.	555.0	537.0	525.0	509.0	494.0	483.0	469.0	452.0	442.0
Cote d'Ivoire	745.0	745.0	732.0	717.0	715.0	715.0	688.0	665.0	645.0
Equatorial Guinea	426.0	408.0	391.0	379.0	364.0	361.0	356.0	351.0	342.0

Excel
CSV
Tabbed TXT

Data on this page only - formatted

Metadata

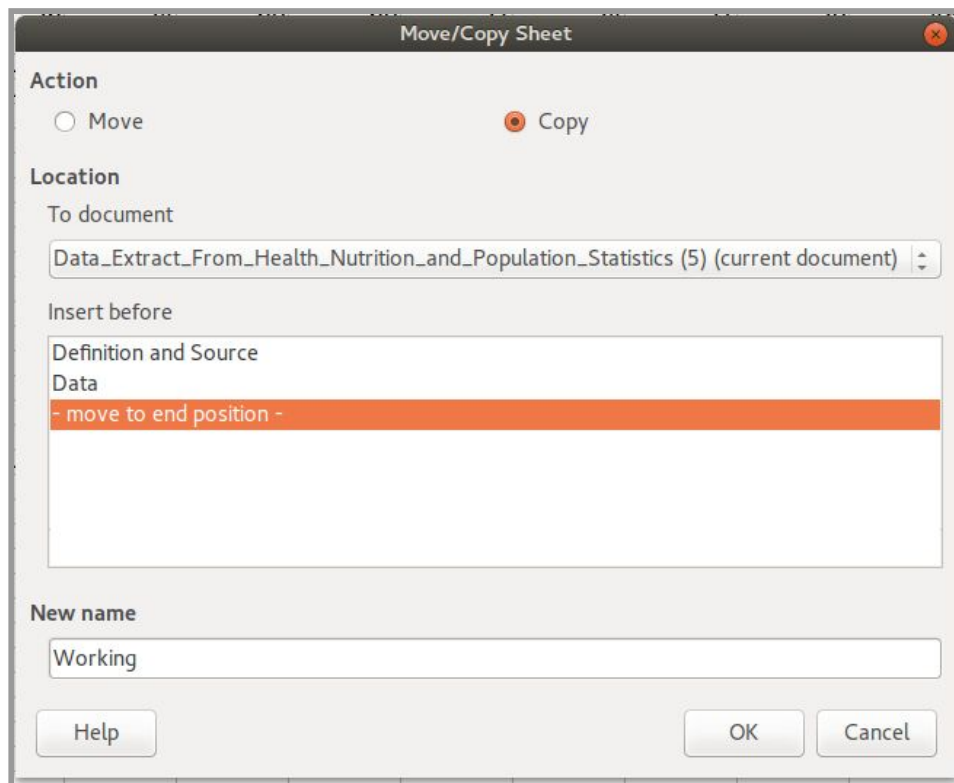
Advanced options

13. Open the downloaded Excel file. Read the definitions for the data in the **Definition and Source** tab.

Task 2: Filtering Data

14. In the Excel file, open the **Data** tab.

15. Make a copy of the data in case you make a mistake. Right click on Data sheet – go to move or copy, in the window click on (move to end) and create a copy called **Working**. Click on OK.



16. Click on row number 1 to highlight all of row 1.

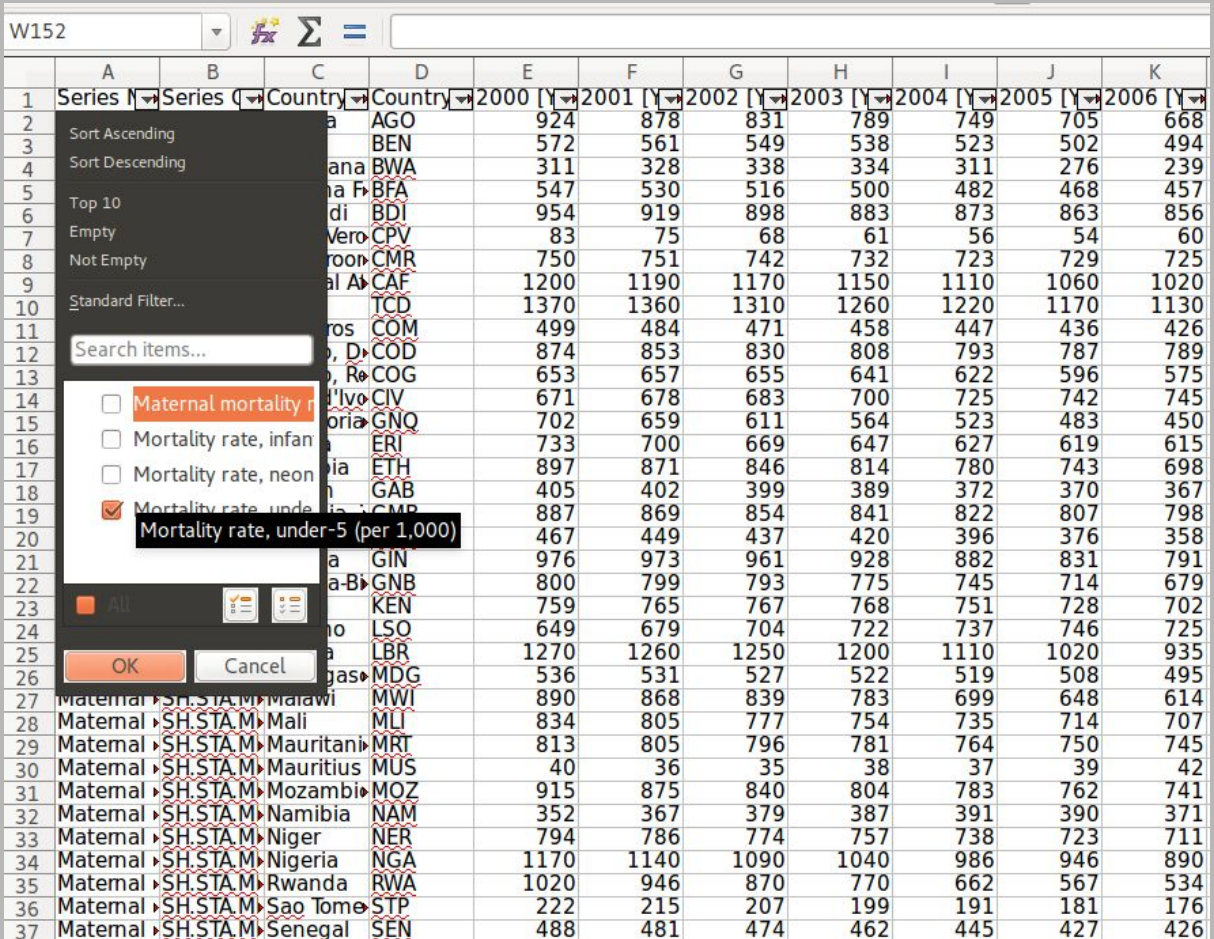
17. In the Excel menu, click **Data** and then select **Filter** or **Autofilter** (in LibreOffice Calc).

Series Name		Series																		
Country	Country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015		
Maternal · SH · STA · Angola	AGO	924	878	831	789	749	705	668	640	606	581	561	546	526	509	493	477			
Maternal · SH · STA · Benin	BEN	572	561	549	538	523	502	494	481	469	457	446	436	429	422	414	405			
Maternal · SH · STA · Botswana	BWA	311	328	338	334	311	276	239	215	208	188	169	153	139	134	129				
Maternal · SH · STA · Burkina Faso	BFA	547	530	516	500	482	468	457	447	436	428	417	408	398	389	379	371			
Maternal · SH · STA · Burundi	BDI	954	919	898	883	873	863	856	849	838	824	808	796	780	760	737	712			
Maternal · SH · STA · Cabo Verde	CPV	83	75	68	61	56	54	60	60	57	54	51	50	48	46	44	42			
Maternal · SH · STA · Cameroon	CMR	750	751	742	732	723	729	725	710	707	696	676	652	632	619	609	596			
Maternal · SH · STA · Central Africa	CAF	1200	1190	1170	1150	1110	1060	1020	992	963	941	909	888	876	873	872	882			
Maternal · SH · STA · Chad	TCD	1370	1360	1310	1260	1220	1170	1130	1100	1070	1070	1040	984	931	901	881	856			
Maternal · SH · STA · Comoros	COM	499	484	471	458	447	436	426	415	407	396	388	376	365	354	344	335			
Maternal · SH · STA · Congo, DRC	COD	874	853	830	808	793	787	789	803	792	793	794	777	771	746	717	693			
Maternal · SH · STA · Congo, Republic of	COG	653	657	655	641	622	596	575	555	537	525	509	494	483	469	452	442			
Maternal · SH · STA · Cote d'Ivoire	CIV	671	678	683	700	725	742	745	745	745	732	717	715	715	688	665	645			
Maternal · SH · STA · Equatorial Guinea	GNQ	702	659	611	564	523	483	450	426	408	391	379	364	361	356	351	342			
Maternal · SH · STA · Eritrea	ERI	733	700	669	647	627	619	615	619	614	599	579	561	540	533	524	501			
Maternal · SH · STA · Ethiopia	ETH	897	871	846	814	780	743	698	654	608	566	523	482	447	410	378	353			
Maternal · SH · STA · Gabon	GAB	405	402	399	389	372	370	367	350	335	327	322	317	314	308	295	291			
Maternal · SH · STA · Gambia, The	GMB	887	869	854	841	822	807	798	789	774	767	753	753	741	730	719	706			
Maternal · SH · STA · Ghana	GHA	467	449	437	420	396	376	358	345	337	330	325	320	324	321	322	319			
Maternal · SH · STA · Guinea	GIN	976	973	961	928	882	831	791	770	743	731	720	711	695	695	688	679			
Maternal · SH · STA · Guinea-Bissau	GNB	800	799	793	775	745	714	679	643	614	587	570	563	553	554	553	549			
Maternal · SH · STA · Kenya	KEN	759	765	767	768	751	728	702	680	660	633	605	584	562	540	525	510			
Maternal · SH · STA · Lesotho	LSO	649	679	704	722	737	746	725	707	668	635	587	555	549	532	513	487			
Maternal · SH · STA · Liberia	LBR	1270	1260	1250	1200	1110	1020	935	890	851	829	811	798	787	762	741	725			
Maternal · SH · STA · Madagascar	MDG	536	531	527	522	519	508	495	482	468	453	436	420	402	384	369	353			
Maternal · SH · STA · Malawi	MWI	890	868	839	783	699	648	614	613	629	633	629	618	624	636	638	634			
Maternal · SH · STA · Mali	MLI	834	805	777	754	735	714	707	697	674	652	630	617	617	610	601	587			
Maternal · SH · STA · Mauritania	MRT	813	805	796	781	764	750	745	744	739	734	723	704	682	655	629	602			
Maternal · SH · STA · Mauritius	MUS	40	36	35	38	37	39	42	45	46	52	59	51	54	54	54	53			
Maternal · SH · STA · Mozambique	MOZ	915	875	840	804	783	762	741	716	682	646	619	596	563	528	506	489			
Maternal · SH · STA · Namibia	NAM	352	367	379	387	391	390	371	344	331	321	319	315	299	283	273	265			
Maternal · SH · STA · Niger	NER	794	786	774	757	738	723	711	699	679	661	657	635	619	596	574	553			
Maternal · SH · STA · Nigeria	NGA	1170	1140	1090	1040	986	946	890	884	829	883	867	824	819	821	820	814			
Maternal · SH · STA · Rwanda	RWA	1020	946	870	770	662	567	534	495	452	411	381	361	336	318	304	290			
Maternal · SH · STA · Sao Tome and Principe	STP	222	215	207	199	191	181	176	173	167	166	162	161	162	161	159	156			
Maternal · SH · STA · Senegal	SEN	488	481	474	462	445	427	426	414	398	387	375	365	351	335	323	315			

18. Click the black triangle in the column header 'Series' (cell A1).

19. Unselect all values.

20. Select just **Mortality rate, under -5 (per 1000)**, and then click **OK**.



	A	B	C	D	E	F	G	H	I	J	K
	Series 1	Series 2	Country	Country	2000 [Y]	2001 [Y]	2002 [Y]	2003 [Y]	2004 [Y]	2005 [Y]	2006 [Y]
1											
2				AGO	924	878	831	789	749	705	668
3				BEN	572	561	549	538	523	502	494
4				BWA	311	328	338	334	311	276	239
5				BFA	547	530	516	500	482	468	457
6				BDI	954	919	898	883	873	863	856
7				CPV	83	75	68	61	56	54	60
8				CMR	750	751	742	732	723	729	725
9				CAF	1200	1190	1170	1150	1110	1060	1020
10				TCD	1370	1360	1310	1260	1220	1170	1130
11				COM	499	484	471	458	447	436	426
12				COD	874	853	830	808	793	787	789
13				COG	653	657	655	641	622	596	575
14				CIV	671	678	683	700	725	742	745
15				GNQ	702	659	611	564	523	483	450
16				ERI	733	700	669	647	627	619	615
17				ETH	897	871	846	814	780	743	698
18				GAB	405	402	399	389	372	370	367
19				GMB	887	869	854	841	822	807	798
20					467	449	437	420	396	376	358
21				GIN	976	973	961	928	882	831	791
22				GNB	800	799	793	775	745	714	679
23				KEN	759	765	767	768	751	728	702
24				LSO	649	679	704	722	737	746	725
25				LBR	1270	1260	1250	1200	1110	1020	935
26				MDG	536	531	527	522	519	508	495
27				MWI	890	868	839	783	699	648	614
28				MLI	834	805	777	754	735	714	707
29				MRT	813	805	796	781	764	750	745
30				MUS	40	36	35	38	37	39	42
31				MOZ	915	875	840	804	783	762	741
32				NAM	352	367	379	387	391	390	371
33				NER	794	786	774	757	738	723	711
34				NGA	1170	1140	1090	1040	986	946	890
35				RWA	1020	946	870	770	662	567	534
36				STP	222	215	207	199	191	181	176
37				SEN	488	481	474	462	445	427	426

Task 3: Sorting Data

21. Click on the triangle next to 2015 [YR2015]. This is in cell T1
22. Select **Sort Largest to Smallest** or **Sort Descending** (in LibreOffice Calc).
23. Based on the sorted data, answer the following question:
 - a. Which country had the highest 'Under five mortality rate' in 2015?
24. Exercise 1: Sort the data further to answer these questions:
 - a. Which country had the highest rate of neonatal fatalities in 2003?
 - b. Which country had the lowest rate of infant deaths in 2012?

Task 4: Calculating Averages

In this task, we will find the average (mean) rate of Under-five mortality for Sub-Saharan Africa for each year from 2000 - 2015. This will help us understand the trend in under-five mortalities for the entire region over these years.

Spreadsheets provide you a simple formula to calculate the numerical average or 'mean' =**AVERAGE(First cell # : Last cell #)**

25. In the last task, you filtered data for the **Mortality rate, under-5 (per 1,000)** indicator. Now select all the filtered data, right click and select **Copy** from the menu.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Series Y	Series C	Country	Country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
47	Mortality	SH.DYN	M	Somalia	SOM	174.4	174.4	174.4	174.4	174.4	174.3	173.7	171.9	168.5	163.7	159.2	154.4	149.8	145.2	140.7
48	Mortality	SH.DYN	M	Chad	TCD	185.1	181.9	178.6	175.4	172.2	168.8	165.3	161.6	157.7	153.7	149.7	145.7	141.8	138.1	134.5
50	Mortality	SH.DYN	M	Central Africa	AF.CAF	172.3	170.7	169	167.2	165.3	163.5	161.2	159	156.2	152.7	148.9	145.2	141.3	137.7	133.6
51	Mortality	SH.DYN	M	Sierra Leone	SLE	233.9	228.3	222.5	216.4	210.2	203.5	196	187.9	179.1	169.6	159.7	149.8	140.4	132	124.9
52	Mortality	SH.DYN	M	Mali	MLI	219.8	211.4	202	192	181.6	171.8	162.7	154.7	147.9	141.7	136.5	131.3	126.6	122.1	118.3
53	Mortality	SH.DYN	M	Nigeria	NGA	187.4	181.7	175.9	169.9	164	157.9	151.9	146	140.3	134.8	129.6	124.6	120	115.6	111.6
54	Mortality	SH.DYN	M	Benin	BEN	144.4	140.7	136.6	132.5	128.2	124.4	121	118.1	115.6	113.2	111.1	109.2	107.2	105.1	102.8
55	Mortality	SH.DYN	M	Lesotho	LSO	110.3	111.9	113.3	114.6	114.7	114.7	114.4	111.6	110.3	103.4	99.7	98	97.6	98.5	98.3
56	Mortality	SH.DYN	M	Congo, DRC	COD	159.8	155.5	151.1	146.7	142.1	137.4	132.8	128.3	123.8	119.6	115.6	111.7	108.1	104.4	101
57	Mortality	SH.DYN	M	Cote d'Ivoire	CIV	145.7	141.5	137.6	134.5	131.1	127.7	124.4	120.1	116.1	112.8	110.5	107.7	104.9	101.7	98.3
58	Mortality	SH.DYN	M	Niger	NER	226.5	217	206.5	195.2	183.7	172.3	161.3	150.8	140.8	131.6	123.3	115.8	109.2	104	99.2
59	Mortality	SH.DYN	M	Equatorial Guinea	GNO	151.6	147.5	143.4	139.2	135	130.8	126.6	122.5	118.4	114.4	110.6	107	103.7	100.4	97.1
60	Mortality	SH.DYN	M	South Sudan	SSD	184.4	175.2	166.2	157.6	149.3	141.6	134.3	127.9	122.1	117	112.5	108.3	104.3	100.6	96.9
61	Mortality	SH.DYN	M	Guinea	GIN	165.8	158.3	151.1	144.3	138.1	132.2	126.9	122.1	117.6	113.4	109.4	105.6	102	98.6	95.2
62	Mortality	SH.DYN	M	Guinea-Bissau	GNB	174.2	168.9	163.4	157.5	151.4	145	138.6	132.2	126	119.9	114	108.5	103.5	99	94.9
64	Mortality	SH.DYN	M	Burkina Faso	BFA	180.6	177.1	172.9	167.9	161.8	154.6	146.9	139	131.1	123.6	116.4	109.6	103.3	97.7	92.8
65	Mortality	SH.DYN	M	Angola	AGO	207	200.9	193.9	185.7	177	167.2	157.5	147.6	137.9	128.3	119.4	111	103.5	96.8	91.2
68	Mortality	SH.DYN	M	Mauritania	MRT	113.1	112.8	112.5	111.9	110.9	109.4	107.4	105.2	102.8	100.2	97.4	94.6	91.9	89.4	86.7
69	Mortality	SH.DYN	M	Cameroon	CMR	165.7	159.8	153.2	147	141.4	136.3	131	125.7	120.2	114.5	108.3	102.5	97	91.9	87.5
70	Mortality	SH.DYN	M	Togo	TGO	119.3	116.1	112.9	109.9	106.9	103.9	101.1	98.3	95.6	92.9	90.3	87.7	85.3	82.9	80.4
72	Mortality	SH.DYN	M	Comoros	COM	102.9	102.8	102.8	102.6	101.8	100.2	98	95.9	93.4	90.8	88.2	85.5	83.2	80.8	78.3
73	Mortality	SH.DYN	M	Mozambique	MOZ	175.6	165.5	156.4	148.3	140.7	133.5	126.8	118.7	111.9	105.7	100.8	95.3	89.5	84.7	79.9
74	Mortality	SH.DYN	M	Burundi	BDI	151	146.3	141.4	136	130.1	123.9	117.3	110.6	104.4	98.7	93.6	89.1	85	81.2	77.9
77	Mortality	SH.DYN	M	Swaziland	SWZ	117.5	121.6	124.1	125.7	125.9	124.7	117	111.7	110.1	104.9	97.4	84.1	82	78.4	74.1
78	Mortality	SH.DYN	M	Liberia	LBR	183.9	171.4	159	146.9	135.5	125.1	115.8	107.7	100.7	94.6	89.3	84.6	80.2	76.4	73
83	Mortality	SH.DYN	M	Gambia	GMB	117.1	112.8	108.6	104.5	100.5	96.6	92.9	89.4	86.2	83.2	80.3	77.4	74.8	72.1	69.9
84	Mortality	SH.DYN	M	Sudan	SDN	104.7	101.3	98	94.8	91.7	88.8	86	83.5	81	78.8	76.7	74.7	72.8	70.9	69
85	Mortality	SH.DYN	M	Zambia	ZMB	160.6	152.1	141.4	130.2	119.7	110.1	102.6	98	93.5	87.9	83.1	79.9	76.1	72.9	69.6
87	Mortality	SH.DYN	M	Ethiopia	ETH	143.7	137.4	130.9	124	117.1	110.2	103.5	97.1	91.2	85.9	80.9	76.2	72	68	64.4
89	Mortality	SH.DYN	M	Ghana	GHA	100.1	97	94	91.4	89	86.9	84.9	82.7	80.4	77.6	74.7	71.7	68.7	66	63.4
91	Mortality	SH.DYN	M	Zimbabwe	ZWE	96.8	97.1	97.7	98.2	99	99.7	100.2	100	98	94.9	89.9	83.8	76	70	64.3
93	Mortality	SH.DYN	M	Malawi	MWI	174.7	162.6	149.2	135.9	124.2	115.4	109.6	105.1	100.5	95.7	90.5	83.2	75.5	68.7	63.3
94	Mortality	SH.DYN	M	Tanzania	TZA	131.8	123.1	114.7	106.8	99.8	93.7	88.5	83.7	79.2	75.7	71.9	68.5	65.8	63.4	60.9
97	Mortality	SH.DYN	M	Uganda	UGA	170.1	162.5	153.1	142.5	131.3	120.3	109.8	100.5	92.6	86.4	81	75.5	70.2	65	60.1
99	Mortality	SH.DYN	M	Congo, Republic of	COG	117.3	114.8	110.1	103.9	97	89.8	82.9	76.8	71.6	67.3	63.9	61.3	59.2	57	55.5
108	Mortality	SH.DYN	M	Kenya	KEN	100.8	97.5	93.8	89.8	85.5	81	76.6	72.6	67.9	64.6	62.2	59.8	57.8	55.8	53.5
109	Mortality	SH.DYN	M	Gabon	GAB	84.6	83.1	81.6	79.9	78.1	76.1	74.1	71.6	68.9	66.3	63.7	61	58.2	55.3	53
111	Mortality	SH.DYN	M	Senegal	SEN	134.2	127.5	119.7	111.4	103.2	95.5	88.4	82	76.4	71.3	66.8	62.6	58.9	55.5	52.3
112	Mortality	SH.DYN	M	Madagascar	MDG	107.6	101.8	96.3	91.2	86.5	82	77.8	73.7	69.8	65.9	62.2	58.7	55.6	52.8	50.5
113	Mortality	SH.DYN	M	Namibia	NAM	74.6	75.2	75.5	75.3	74.2	71	67	63.7	60.9	58.6	56	54	53.4	50.6	48.4
115	Mortality	SH.DYN	M	Eritrea	ERI	88.9	84.4	80.3	76.4	72.7	69.2	65.9	62.9	60	57.4	55.2	53.1	51.1	49.3	47.6
117	Mortality	SH.DYN	M	South Africa	ZAF	66.7	68.7	71.1	73.2	74.4	74.3	72.6	69.4	66	61.5	53.7	49.8	48	46	44.5
122	Mortality	SH.DYN	M	Botswana	BSW	83.7	82.7	81	78.6	75.6	69.8	64.2	62	60	56.6	52.5	51.7	49.4	46.3	44.6
127	Mortality	SH.DYN	M	Rwanda	RWA	194.7	180.6	164.1	147	130	114.6	101.2	89.5	79.6	71.2	63.6	56.6	50.9	46.8	43.4
141	Mortality	SH.DYN	M	Sao Tome and Principe	STP	83.2	78.7	74.2	69.7	65.5	61.5	57.8	54.3	51.2	48.2	45.4	42.9	40.6	38.6	36.8
175	Mortality	SH.DYN	M	Cabo Verde	CPV	36	32.8	30.5	29	28.3	27.9	27.9	27.8	27.5	27.1	26.5	25.7	24.8	23.9	23
186	Mortality	SH.DYN	M	Seychelles	SYC	13.8	13.8	13.9	14	14.1	14.1	14.1	14.2	14.2	14.3	14.4	14.5	14.6	14.6	14.6
187	Mortality	SH.DYN	M	Mauritius	MUS	18.5	17.1	16.1	15.6	15.3	15.7	16	16.1	15.8	15.4	15	14.9	14.8	14.8	14.7

26. Add a new worksheet in the spreadsheet file.

27. In the new sheet, select the cell A1. Right click, and select **Paste Special** to past just the values.

28. Now, rename this new sheet to **Under 5**.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Series Name	Series Code	Country Name	Country Code	2000 [YR]	2001 [YR]	2002 [YR]	2003 [YR]	2004 [YR]	2005 [YR]	2006 [YR]	2007 [YR]	2008 [YR]
2	Mortality	SH.DYN.M	Somalia	SOM	174.4	174.4	174.4	174.4	174.4	174.3	173.7	171.9	168.5
3	Mortality	SH.DYN.M	Chad	TCO	185.1	181.9	178.6	175.4	172.2	168.8	165.3	161.6	157.7
4	Mortality	SH.DYN.M	Central Africa	CAF	172.3	170.7	169	167.2	165.3	163.5	161.2	159	156.2
5	Mortality	SH.DYN.M	Sierra Leone	SLE	233.9	228.3	222.5	216.4	210.2	203.5	196	187.9	179.1
6	Mortality	SH.DYN.M	Mali	MLI	219.8	211.4	202	192	181.6	171.8	162.7	154.7	147.9
7	Mortality	SH.DYN.M	Nigeria	NGA	187.4	181.7	175.9	169.9	164	157.9	151.9	146	140.3
8	Mortality	SH.DYN.M	Benin	BEN	144.4	140.7	136.6	132.5	128.2	124.4	121	118.1	115.6
9	Mortality	SH.DYN.M	Lesotho	LSO	110.3	111.9	113.3	114.6	114.7	114.7	114.4	111.6	110.3
10	Mortality	SH.DYN.M	Congo, Dem.	COD	159.8	155.5	151.1	146.7	142.1	137.4	132.8	128.3	123.8
11	Mortality	SH.DYN.M	Cote d'Ivoire	CIV	145.7	141.5	137.6	134.5	131.1	127.7	124.4	120.1	116.1
12	Mortality	SH.DYN.M	Niger	NER	226.5	217	206.5	195.2	183.7	172.3	161.3	150.8	140.8
13	Mortality	SH.DYN.M	Equatorial Guinea	GNQ	151.6	147.5	143.4	139.2	135	130.8	126.6	122.5	118.4
14	Mortality	SH.DYN.M	South Sudan	SSD	184.4	175.2	166.2	157.6	149.3	141.6	134.3	127.9	122.1
15	Mortality	SH.DYN.M	Guinea	GIN	165.8	158.3	151.1	144.3	138.1	132.2	126.9	122.1	117.6
16	Mortality	SH.DYN.M	Guinea-Bissau	GNB	174.2	168.9	163.4	157.5	151.4	145	138.6	132.2	126
17	Mortality	SH.DYN.M	Burkina Faso	BFA	180.6	177.1	172.9	167.9	161.8	154.6	146.9	139	131.1
18	Mortality	SH.DYN.M	Angola	AGO	207	200.9	193.9	185.7	177	167.2	157.5	147.6	137.9
19	Mortality	SH.DYN.M	Mauritania	MRT	113.1	112.8	112.5	111.9	110.9	109.4	107.4	105.2	102.8
20	Mortality	SH.DYN.M	Cameroon	CMR	165.7	159.8	153.2	147	141.4	136.3	131	125.7	120.2
21	Mortality	SH.DYN.M	Togo	TGO	119.3	116.1	112.9	109.9	106.9	103.9	101.1	98.3	95.6
22	Mortality	SH.DYN.M	Comoros	COM	102.9	102.8	102.8	102.6	101.8	100.2	98	95.9	93.4
23	Mortality	SH.DYN.M	Mozambique	MOZ	175.6	165.5	156.4	148.3	140.7	133.5	126.8	118.7	111.9
24	Mortality	SH.DYN.M	Burundi	BDI	151	146.3	141.4	136	130.1	123.9	117.3	110.6	104.4
25	Mortality	SH.DYN.M	Swaziland	SWZ	117.5	121.6	124.1	125.7	125.9	124.7	117	111.7	110.1
26	Mortality	SH.DYN.M	Liberia	LBR	183.9	171.4	159	146.9	135.5	125.1	115.8	107.7	100.7
27	Mortality	SH.DYN.M	Gambia, The	GMB	117.1	112.8	108.6	104.5	100.5	96.6	92.9	89.4	86.2
28	Mortality	SH.DYN.M	Sudan	SDN	104.7	101.3	98	94.8	91.7	88.8	86	83.5	81
29	Mortality	SH.DYN.M	Zambia	ZMB	160.6	152.1	141.4	130.2	119.7	110.1	102.6	98	93.5
30	Mortality	SH.DYN.M	Ethiopia	ETH	143.7	137.4	130.9	124	117.1	110.2	103.5	97.1	91.2
31	Mortality	SH.DYN.M	Ghana	GHA	100.1	97	94	91.4	89	86.9	84.9	82.7	80.4
32	Mortality	SH.DYN.M	Zimbabwe	ZWE	96.8	97.1	97.7	98.2	99	99.7	100.2	100	98
33	Mortality	SH.DYN.M	Malawi	MWI	174.7	162.6	149.2	135.9	124.2	115.4	109.6	105.1	100.5
34	Mortality	SH.DYN.M	Tanzania	TZA	131.8	123.1	114.7	106.8	99.8	93.7	88.5	83.7	79.2
35	Mortality	SH.DYN.M	Uganda	UGA	170.1	162.5	153.1	142.5	131.3	120.3	109.8	100.5	92.6
36	Mortality	SH.DYN.M	Congo, Rep.	COG	117.3	114.8	110.1	103.9	97	89.8	82.9	76.8	71.6
37	Mortality	SH.DYN.M	Kenya	KEN	100.8	97.5	93.8	89.8	85.5	81	76.6	72.6	67.9
38	Mortality	SH.DYN.M	Gabon	GAB	84.6	83.1	81.6	79.9	78.1	76.1	74.1	71.6	68.9
39	Mortality	SH.DYN.M	Senegal	SEN	134.2	127.5	119.7	111.4	103.2	95.5	88.4	82	76.4
40	Mortality	SH.DYN.M	Madagascar	MDG	107.6	101.8	96.3	91.2	86.5	82	77.8	73.7	69.8
41	Mortality	SH.DYN.M	Namibia	NAM	74.6	75.2	75.5	75.3	74.2	71	67	63.7	60.9
42	Mortality	SH.DYN.M	Eritrea	ERI	88.9	84.4	80.3	76.4	72.7	69.2	65.9	62.9	60
43	Mortality	SH.DYN.M	South Africa	ZAF	66.7	68.7	71.1	73.2	74.4	74.3	72.6	69.4	66
44	Mortality	SH.DYN.M	Botswana	BWA	83.7	82.7	81	78.6	75.6	69.8	64.2	62	60
45	Mortality	SH.DYN.M	Rwanda	RWA	194.7	180.6	164.1	147	130	114.6	101.2	89.5	79.6
46	Mortality	SH.DYN.M	Sao Tome & Principe	STP	83.2	78.7	74.2	69.7	65.5	61.5	57.8	54.3	51.2
47	Mortality	SH.DYN.M	Cabo Verde	CPV	36	32.8	30.5	29	28.3	27.9	27.9	27.8	27.5
48	Mortality	SH.DYN.M	Seychelles	SYC	13.8	13.8	13.9	14	14.1	14.1	14.1	14.2	14.2
49	Mortality	SH.DYN.M	Mauritius	MUS	18.5	17.1	16.1	15.6	15.5	15.7	16	16.1	15.8

29. Next, in cell A50, type **Mean**.

30. In cell E50, enter the formula **=AVERAGE(E2:E49)**, and press **Enter**. Now you have the average under-five mortality rate for Sub-Saharan Africa in 2000.

AVERAGE					=AVERAGE(E2:E49)						
	A	B	C	D	E	F	G	H	I	J	K
13	Mortality	SH.DYN.M	Equatorial	GNQ	151.6	147.5	143.4	139.2	135	130.8	126.6
14	Mortality	SH.DYN.M	South Suo	SSD	184.4	175.2	166.2	157.6	149.3	141.6	134.3
15	Mortality	SH.DYN.M	Guinea	GIN	165.8	158.3	151.1	144.3	138.1	132.2	126.9
16	Mortality	SH.DYN.M	Guinea-Bis	GNB	174.2	168.9	163.4	157.5	151.4	145	138.6
17	Mortality	SH.DYN.M	Burkina F	BFA	180.6	177.1	172.9	167.9	161.8	154.6	146.9
18	Mortality	SH.DYN.M	Angola	AGO	207	200.9	193.9	185.7	177	167.2	157.5
19	Mortality	SH.DYN.M	Mauritania	MRT	113.1	112.8	112.5	111.9	110.9	109.4	107.4
20	Mortality	SH.DYN.M	Cameroon	CMR	165.7	159.8	153.2	147	141.4	136.3	131
21	Mortality	SH.DYN.M	Togo	TGO	119.3	116.1	112.9	109.9	106.9	103.9	101.1
22	Mortality	SH.DYN.M	Comoros	COM	102.9	102.8	102.8	102.6	101.8	100.2	98
23	Mortality	SH.DYN.M	Mozambique	MOZ	175.6	165.5	156.4	148.3	140.7	133.5	126.8
24	Mortality	SH.DYN.M	Burundi	BDI	151	146.3	141.4	136	130.1	123.9	117.3
25	Mortality	SH.DYN.M	Swaziland	SWZ	117.5	121.6	124.1	125.7	125.9	124.7	117
26	Mortality	SH.DYN.M	Liberia	LBR	183.9	171.4	159	146.9	135.5	125.1	115.8
27	Mortality	SH.DYN.M	Gambia, T	GMB	117.1	112.8	108.6	104.5	100.5	96.6	92.9
28	Mortality	SH.DYN.M	Sudan	SDN	104.7	101.3	98	94.8	91.7	88.8	86
29	Mortality	SH.DYN.M	Zambia	ZMB	160.6	152.1	141.4	130.2	119.7	110.1	102.6
30	Mortality	SH.DYN.M	Ethiopia	ETH	143.7	137.4	130.9	124	117.1	110.2	103.5
31	Mortality	SH.DYN.M	Ghana	GHA	100.1	97	94	91.4	89	86.9	84.9
32	Mortality	SH.DYN.M	Zimbabwe	ZWE	96.8	97.1	97.7	98.2	99	99.7	100.2
33	Mortality	SH.DYN.M	Malawi	MWI	174.7	162.6	149.2	135.9	124.2	115.4	109.6
34	Mortality	SH.DYN.M	Tanzania	TZA	131.8	123.1	114.7	106.8	99.8	93.7	88.5
35	Mortality	SH.DYN.M	Uganda	UGA	170.1	162.5	153.1	142.5	131.3	120.3	109.8
36	Mortality	SH.DYN.M	Congo, Re	COG	117.3	114.8	110.1	103.9	97	89.8	82.9
37	Mortality	SH.DYN.M	Kenya	KEN	100.8	97.5	93.8	89.8	85.5	81	76.6
38	Mortality	SH.DYN.M	Gabon	GAB	84.6	83.1	81.6	79.9	78.1	76.1	74.1
39	Mortality	SH.DYN.M	Senegal	SEN	134.2	127.5	119.7	111.4	103.2	95.5	88.4
40	Mortality	SH.DYN.M	Madagaso	MDG	107.6	101.8	96.3	91.2	86.5	82	77.8
41	Mortality	SH.DYN.M	Namibia	NAM	74.6	75.2	75.5	75.3	74.2	71	67
42	Mortality	SH.DYN.M	Eritrea	ERI	88.9	84.4	80.3	76.4	72.7	69.2	65.9
43	Mortality	SH.DYN.M	South Afri	ZAF	66.7	68.7	71.1	73.2	74.4	74.3	72.6
44	Mortality	SH.DYN.M	Botswana	BWA	83.7	82.7	81	78.6	75.6	69.8	64.2
45	Mortality	SH.DYN.M	Rwanda	RWA	194.7	180.6	164.1	147	130	114.6	101.2
46	Mortality	SH.DYN.M	Sao Tome	STP	83.2	78.7	74.2	69.7	65.5	61.5	57.8
47	Mortality	SH.DYN.M	Cabo Ver	CPV	36	32.8	30.5	29	28.3	27.9	27.9
48	Mortality	SH.DYN.M	Seychelles	SYC	13.8	13.8	13.9	14	14.1	14.1	14.1
49	Mortality	SH.DYN.M	Mauritius	MUS	18.5	17.1	16.1	15.6	15.5	15.7	16
50	Mean				=AVERAGE(E2:E49)						

31. Copy the equation to the other columns on the right to see the average for each year. To do this, hover over the bottom right corner of cell E50 until a black or white plus appears. Click and hold, dragging across the columns in row 50.

E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
159.8	155.5	151.1	146.7	142.1	137.4	132.8	128.3	123.8	119.6	115.6	111.7	108.1	104.4	101	97.6
145.7	141.5	137.6	134.5	131.1	127.7	124.4	120.1	116.1	112.8	110.5	107.7	104.9	101.7	98.3	95.1
226.5	217	206.5	195.2	183.7	172.3	161.3	150.8	140.8	131.6	123.3	115.8	109.2	104	99.2	95
151.6	147.5	143.4	139.2	135	130.8	126.6	122.5	118.4	114.4	110.6	107	103.7	100.4	97.1	94
184.4	175.2	166.2	157.6	149.3	141.6	134.3	127.9	122.1	117	112.5	108.3	104.3	100.6	96.9	93.8
165.8	158.3	151.1	144.3	138.1	132.2	126.9	122.1	117.6	113.4	109.4	105.6	102	98.6	95.2	92
174.2	168.9	163.4	157.5	151.4	145	138.6	132.2	126	119.9	114	108.5	103.5	99	94.9	91.3
180.6	177.1	172.9	167.9	161.8	154.6	146.9	139	131.1	123.6	116.4	109.6	103.3	97.7	92.8	88.5
207	200.9	193.9	185.7	177	167.2	157.5	147.6	137.9	128.3	119.4	111	103.5	96.8	91.2	86.5
113.1	112.8	112.5	111.9	110.9	109.4	107.4	105.2	102.8	100.2	97.4	94.6	91.9	89.4	86.7	83.9
165.7	159.8	153.2	147	141.4	136.3	131	125.7	120.2	114.5	108.3	102.5	97	91.9	87.5	83.3
119.3	116.1	112.9	109.9	106.9	103.9	101.1	98.3	95.6	92.9	90.3	87.7	85.3	82.9	80.4	78
102.9	102.8	102.8	102.6	101.8	100.2	98	95.9	93.4	90.8	88.2	85.5	83.2	80.8	78.3	75.8
175.6	165.5	156.4	148.3	140.7	133.5	126.8	118.7	111.9	105.7	100.8	95.3	89.5	84.7	79.9	75.1
151	146.3	141.4	136	130.1	123.9	117.3	110.6	104.4	98.7	93.6	89.1	85	81.2	77.9	74.6
117.5	121.6	124.1	125.7	125.9	124.7	117	111.7	110.1	104.9	97.4	84.1	82	78.4	74.1	71.3
183.9	171.4	159	146.9	135.5	125.1	115.8	107.7	100.7	94.6	89.3	84.6	80.2	76.4	73	70.1
117.1	112.8	108.6	104.5	100.5	96.6	92.9	89.4	86.2	83.2	80.3	77.4	74.8	72.1	69.9	67.5
104.7	101.3	98	94.8	91.7	88.8	86	83.5	81	78.8	76.7	74.7	72.8	70.9	69	67.1
160.6	152.1	141.4	130.2	119.7	110.1	102.6	98	93.5	87.9	83.1	79.9	76.1	72.9	69.6	66.1
143.7	137.4	130.9	124	117.1	110.2	103.5	97.1	91.2	85.9	80.9	76.2	72	68	64.4	61.3
100.1	97	94	91.4	89	86.9	84.9	82.7	80.4	77.6	74.7	71.7	68.7	66	63.4	61
96.8	97.1	97.7	98.2	99	99.7	100.2	100	98	94.9	89.9	83.8	76	70	64.3	59.9
174.7	162.6	149.2	135.9	124.2	115.4	109.6	105.1	100.5	95.7	90.5	83.2	75.5	68.7	63.3	59.1
131.8	123.1	114.7	106.8	99.8	93.7	88.5	83.7	79.2	75.7	71.9	68.5	65.8	63.4	60.9	58.8
170.1	162.5	153.1	142.5	131.3	120.3	109.8	100.5	92.6	86.4	81	75.5	70.2	65	60.1	55.9
117.3	114.8	110.1	103.9	97	89.8	82.9	76.8	71.6	67.3	63.9	61.3	59.2	57.7	56.5	55.4
100.8	97.5	93.8	89.8	85.5	81	76.6	72.6	67.9	64.6	62.2	59.8	57.8	55.8	53.5	51
84.6	83.1	81.6	79.9	78.1	76.1	74.1	71.6	68.9	66.3	63.7	61	58.2	55.3	53	50.6
134.2	127.5	119.7	111.4	103.2	95.5	88.4	82	76.4	71.3	66.8	62.6	58.9	55.5	52.3	49.5
107.6	101.8	96.3	91.2	86.5	82	77.8	73.7	69.8	65.9	62.2	58.7	55.6	52.8	50.5	48.4
74.6	75.2	75.5	75.3	74.2	71	67	63.7	60.9	58.6	56	54	53.4	50.6	48.4	48
88.9	84.4	80.3	76.4	72.7	69.2	65.9	62.9	60	57.4	55.2	53.1	51.1	49.3	47.6	45.9
66.7	68.7	71.1	73.2	74.4	74.3	72.6	69.4	66	61.5	53.7	49.8	48	46	44.5	44.1
83.7	82.7	81	78.6	75.6	69.8	64.2	62	60	56.6	52.5	51.7	49.4	46.3	44.6	42.1
194.7	180.6	164.1	147	130	114.6	101.2	89.5	79.6	71.2	63.6	56.6	50.9	46.8	43.4	40.5
83.2	78.7	74.2	69.7	65.5	61.5	57.8	54.3	51.2	48.2	45.4	42.9	40.6	38.6	36.8	35.2
36	32.8	30.5	29	28.3	27.9	27.9	27.8	27.5	27.1	26.5	25.7	24.8	23.9	23	22.2
13.8	13.8	13.9	14	14.1	14.1	14.1	14.2	14.2	14.3	14.4	14.5	14.6	14.6	14.6	14.5
18.5	17.1	16.1	15.6	15.5	15.7	16	16.1	15.8	15.4	15	14.9	14.8	14.8	14.7	14.3
136.59167	132.1625	127.42708	122.55417	117.62917	112.68542	107.8	103.16042	98.76875	94.322917	90.03125	85.922917	82.302083	78.920833	75.779167	72.914583

32. Exercise 2: Based on what you have learned, calculate the **mean infant mortality rate** for all countries over the years.

Task 5: Calculating Percentage Change

After calculating the average rate per year across the region - you want to focus on figuring out how each country has improved on reducing under-five mortality between 2000 and 2015. In this case, you will look at the percentage change in the under-five mortality between these two years.

In general, to calculate the percentage change between two numbers - you need to first work out the change between the two numbers you are comparing. Then, divide the changed amount by the original number and right click, format cells and select percentage to change from a decimal to percentage. If your answer is a negative number, then this is a percentage decrease. In our scenario, a negative % change would indicate that the under-five mortality rate has decreased over the decade.

33. In cell U1 of the “Under 5” sheet that you created, type **Percentage Change 2000 to 2015**.

34. In cell U2 enter **=(T2-E2)** and then press Enter.

	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	2002 [YR2	2003 [YR2	2004 [YR2	2005 [YR2	2006 [YR2	2007 [YR2	2008 [YR2	2009 [YR2	2010 [YR2	2011 [YR2	2012 [YR2	2013 [YR2	2014 [YR2	2015 [YR2	Percentage Change 2000 to 2015
2	174.4	174.4	174.4	174.3	173.7	171.9	168.5	163.7	159.2	154.4	149.8	145.2	140.7	136.7	=(T2-E2)/E2
3	178.6	175.4	172.2	168.8	165.3	161.6	157.7	153.7	149.7	145.7	141.8	138.1	134.5	130.9	
4	169	167.2	165.3	163.5	161.2	159	156.2	152.7	148.9	145.2	141.3	137.7	133.6	128.8	
5	222.5	216.4	210.2	203.5	196	187.9	179.1	169.6	159.7	149.8	140.4	132	124.9	118.8	
6	202	192	181.6	171.8	162.7	154.7	147.9	141.7	136.5	131.3	126.6	122.1	118.3	114.2	
7	175.9	169.9	164	157.9	151.9	146	140.3	134.8	129.6	124.6	120	115.6	111.6	108	

35. Hover over the bottom right corner of the cell U2 until a black or white plus appears. Click and hold, dragging across the rows in column T.

36. Now select the values in column U, and right click. Select Format Cell. Next select Percentage or Percent (LibreOffice Calc), and then click OK.

These are our results.

Q	R	S	T	U
2012 [YR2	2013 [YR2	2014 [YR2	2015 [YR2	Percentage Change 2000 to 2015
149.8	145.2	140.7	136.7	-21.62%
141.8	138.1	134.5	130.9	-29.28%
141.3	137.7	133.6	128.8	-25.25%
140.4	132	124.9	118.8	-49.21%
126.6	122.1	118.3	114.2	-48.04%
120	115.6	111.6	108	-42.37%
107.2	105.1	102.8	100.3	-30.54%
97.6	98.5	98.3	97.9	-11.24%
108.1	104.4	101	97.6	-38.92%
104.9	101.7	98.3	95.1	-34.73%
109.2	104	99.2	95	-58.06%
103.7	100.4	97.1	94	-37.99%
104.3	100.6	96.9	93.8	-49.13%
102	98.6	95.2	92	-44.51%
103.5	99	94.9	91.3	-47.59%
103.3	97.7	92.8	88.5	-51.00%
103.5	96.8	91.2	86.5	-58.21%
91.9	89.4	86.7	83.9	-25.82%
97	91.9	87.5	83.3	-49.73%
85.3	82.9	80.4	78	-34.62%
83.2	80.8	78.3	75.8	-26.34%
89.5	84.7	79.9	75.1	-57.23%
85	81.2	77.9	74.6	-50.60%
82	78.4	74.1	71.3	-39.32%
80.2	76.4	73	70.1	-61.88%
74.8	72.1	69.9	67.5	-42.36%
72.8	70.9	69	67.1	-35.91%
76.1	72.9	69.6	66.1	-58.84%
72	68	64.4	61.3	-57.34%
68.7	66	63.4	61	-39.06%
76	70	64.3	59.9	-38.12%
75.5	68.7	63.3	59.1	-66.17%
65.8	63.4	60.9	58.8	-55.39%
70.2	65	60.1	55.9	-67.14%
59.2	57.7	56.5	55.4	-52.77%
57.8	55.8	53.5	51	-49.40%
58.2	55.3	53	50.6	-40.19%
58.9	55.5	52.3	49.5	-63.11%
55.6	52.8	50.5	48.4	-55.02%
53.4	50.6	48.4	48	-35.66%
51.1	49.3	47.6	45.9	-48.37%
48	46	44.5	44.1	-33.88%
49.4	46.3	44.6	42.1	-49.70%

Exercise 3: Calculate the **percentage change for maternal mortality** between 2000 and 2015 for each country in the region.